



## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/511,436  
Source: P9710  
Date Processed by STIC: 11/2/04

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



PCT

## RAW SEQUENCE LISTING

DATE: 11/02/2004

PATENT APPLICATION: US/10/511,436

TIME: 14:22:23

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\11022004\J511436.raw

3 <110> APPLICANT: KIRIN BEER KABUSHIKI KAISHA  
 4 National Institute of Advanced Industrial Science and Technology  
 6 <120> TITLE OF INVENTION: A methylotrophic yeast capable of producing a mammalian type  
 sugar  
 7 chain  
 9 <130> FILE REFERENCE: PH-1796-PCT  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/511,436  
 C--> 11 <141> CURRENT FILING DATE: 2004-10-25  
 11 <150> PRIOR APPLICATION NUMBER: JP 2002-127677  
 12 <151> PRIOR FILING DATE: 2002-04-26  
 14 <160> NUMBER OF SEQ ID NOS: 120  
 16 <170> SOFTWARE: PatentIn Ver. 2.0

*pp 1-4*  
 Does Not Comply  
 Corrected Diskette Needed

## ERRORED SEQUENCES

3136 <210> SEQ ID NO: 120  
 3137 <211> LENGTH: 33  
 3138 <212> TYPE: DNA  
 3139 <213> ORGANISM: Artificial Sequence  
 3141 <220> FEATURE:  
 3142 <223> OTHER INFORMATION: Description of Artificial Sequence: primer PDI3 for  
 amplification of  
 3143 3'-region of Saccharomyces cerevisiae PDI gene  
 3145 <400> SEQUENCE: 120  
 3146 ggatccttac aattcatcgt gaatggcatc ttc  
 E--> 3151 (1/1)

33

*delete*

*see pp 2-3 for more errors*

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2

<210> 3  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer PGP5 for amplification of 5'-region of Ogataea minuta GAP gene

<400> 3

gqntayatgt tyaartayga ywsnactay gg

32

nts need to be explained - see p.4 for error exploration  
↓

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

IMPORTANT

The above error  
is a sample of global  
error

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<210> 87  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for amplification of  
5'-region of  $\alpha$ -mannosidase gene

<400> 87

ggggggtcga catggtgggc ttcagcaaaa ccgctgccc

39

They  
cannot  
be processed  
in CRF  
software

do NOT include scientific symbols or foreign accent marks

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/511,436

DATE: 11/02/2004  
TIME: 14:22:24

Input Set : A:\PTO.FG.txt  
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*error explanation*

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:3; N Pos. 3,24,27  
Seq#:4; N Pos. 3,6,21,24,27  
Seq#:13; N Pos. 3,6,18,21,27  
Seq#:14; N Pos. 6,9,15,21,24,27,30  
Seq#:25; N Pos. 6,9,12,18,24,27,36  
Seq#:26; N Pos. 3,12,15,33  
Seq#:38; Xaa Pos. 3,4  
Seq#:40; N Pos. 3,21  
Seq#:41; N Pos. 19,22,25  
Seq#:49; N Pos. 3,12,18  
Seq#:50; N Pos. 6,18  
Seq#:51; N Pos. 35  
Seq#:53; Xaa Pos. 2  
Seq#:54; Xaa Pos. 6,9,10  
Seq#:55; N Pos. 6,12,18,21,30  
Seq#:56; N Pos. 3,6,12,15,18,24,27,30  
Seq#:59; Xaa Pos. 1,5  
Seq#:61; N Pos. 15,21  
Seq#:62; N Pos. 12,27  
Seq#:67; N Pos. 3,6,12,15,21,27  
Seq#:68; N Pos. 3,12,18,24  
Seq#:75; N Pos. 3,6,9,12,15  
Seq#:76; N Pos. 6,12,18  
Seq#:97; N Pos. 2,5,11  
Seq#:98; N Pos. 3,6,12,15,18  
Seq#:105; N Pos. 3,6,9,12,15  
Seq#:106; N Pos. 1,7,16,19  
Seq#:113; N Pos. 6,12,15,21  
Seq#:114; N Pos. 9,21

## VERIFICATION SUMMARY

DATE: 11/02/2004

PATENT APPLICATION: US/10/511,436

TIME: 14:22:24

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\11022004\J511436.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:46 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:3  
L:46 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:3  
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:58 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4  
L:58 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4  
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:295 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:13  
L:295 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:13  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:307 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:14  
L:307 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:14  
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:530 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:25  
L:530 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:25  
L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:542 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:26  
L:542 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:26  
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:807 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:40  
L:807 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:40  
L:807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:819 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:41  
L:819 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:41  
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:1029 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:49  
L:1029 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:49  
L:1029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:1041 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:50  
L:1041 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:50  
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0  
L:1053 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:51  
L:1053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0  
L:1182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0  
L:1206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0  
L:1219 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:55  
L:1219 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:55  
L:1219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0  
L:1231 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:56  
L:1231 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:56  
L:1231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0  
L:1405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0  
L:1427 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:61  
L:1427 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:61  
L:1427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0  
L:1439 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:62

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/511,436

DATE: 11/02/2004

TIME: 14:22:24

Input Set : A:\PTO.FG.txt

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L:1439 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:62  
L:1439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0  
L:1597 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:67  
L:1597 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:67  
L:1597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0  
L:1609 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:68  
L:1609 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:68  
L:1609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0  
L:1785 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:75  
L:1785 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:75  
L:1785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0  
L:1797 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:76  
L:1797 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:76  
L:1797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0  
L:2461 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:97  
L:2461 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:97  
L:2461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:0  
L:2473 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:98  
L:2473 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:98  
L:2473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0  
L:2651 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:105  
L:2651 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:105  
L:2651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0  
L:2663 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:106  
L:2663 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:106  
L:2663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0  
L:2895 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:113  
L:2895 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:113  
L:2895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0  
L:2907 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:114  
L:2907 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:114  
L:2907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:0  
L:3151 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:34 SEQ:120  
L:3151 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2  
L:3151 M:252 E: No. of Seq. differs, <211> LENGTH:Input:33 Found:34 SEQ:120